

Federation of Clinical Biology

Medicinal Biology Department
MC V HERVE

Toxicology, Biochemistry and Clinical
Pharmacology Department
PCC P VEST

Case N° **4110163138** of 03/11/04 at 22:30
sample of 03/11/04
patient n°: P19532118

Page: 001
Published on 17/11/04 at 11:05
DUPLICATE

Frederic MARTIPON
Born on: 30/12/1940 – M

INTENSIVE CARE
93.62.29

HAEMATOLOGY

MYELOGRAM

Medullary abundance 3.5 to 4/5
MEGAKARYOCYTES 10/slide

GRANULOCYTE LINEAGE

Neutrophils

Myeloblasts	0.2	%
Promyelo. neutrophils	3.8	%
Myelocyt. neutrophils	15.0	%
Metamyelo. neutrophils	15.5	%
Polymorphonucleocytes	32.0	%

Eosinophils

Promyelo. eosinophils	0.0	%
Myelocyt. eosinophils	0.0	%
Metamyelo. eosinophils	0.0	%
Polymorphonucleocytes	0.5	%

<i>Basophils</i>	0.0	%
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Total granulocyte lineage:	67.0	%
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ERYTHROCYTE LINEAGE

Proerythroblasts	0.25	%
Baso erythroblasts	0.25	%
Poly erythroblasts	1.00	%
Acido erythroblasts	15.50	%

Total erythroblast lineage:	17.00	%
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NON-MYELOID LINEAGE

Lymphocytes	6.0	%
Prolymphocytes	0.0	%
Plasmocytes	4.0	%
Proplasmocytes	0.0	%
Plasmablasts	0.0	%
Monocytes	2.0	%
Promonocytes	0.0	%
Total non-myeloid lineage:	12.0	%

UNDIFFERENTIATED BLASTS 0.0 %

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INTERPRETATION:

MACROPHAGES: 4%

Marrow of abundance 3.5 to 4/5 comprising 10 megakaryocytes per slide of normal morphology. Quite a low representation of the megakaryocyte lineage can be noted in comparison to the medullary abundance.

The granulocyte lineage is rich, represented at its various stages of maturation. Slight dysgranulopoiesis with a few nuclear dystrophies of the most mature forms (metamyelocytes and neutrophil polymorphonucleocytes).

The erythroblast lineage is correctly represented observed at its various stages of maturity. A slight dyserythropoiesis can be observed. The Perls' stain does not highlight an excess of type III sideroblasts.

Moderate plasmacytosis composed of mature plasmocytes. The presence of rare Mott cells can be observed. Observation of rare mast cells.

In particular the presence of macrophages can be noted (representing 3 to 5% of total cellularity) presenting major appearances of hemophagocytosis. This cytophagocytosis concerns platelet, erythroblast and granulocyte elements. The presence of a few macrophages containing many granules of haemosiderin can be noted upon the Perls' stain.

CONCLUSION: Rich marrow with observation of various medullary lineages. Average representation of the megakaryocyte lineage.

Absence of excess blasts. Absence of abnormal cells of extramedullary origin.

“Reactive” cytological appearance of marrow with observation of macrophages presenting clear appearance of haemocyte phagocytosis conveying a macrophage activity.

To be compared with the clinical and biochemical data.

[signature]

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IMMUNOPHENOTYPINGFlow cytometry*Fascan automate (Beckton Dickinson)**Cell Quest analysis software (Becton Dickinson)**Dual or triple marking technique*

Sample of: 03/11/04 Analysed on: 04/11/04

Pan-leucocyte markers

CD45 : 100.00 %

Immature cell markers

CD34 : 2.88 %

B lymphocyte markers

CD10 : 0.22 %

CD19 : 18.39 %

CD20 : 16.24 %

CD22 : 16.55 %

Coexpression 19-38 : 0.93 %

Anti-Kappa : 9.44 %

Anti-Lambda : 7.91 %

T lymphocyte markers

CD2 : 81.12 %

CD3s : 57.77 %

CD5 : 58.32 %

CD7 : 68.61 %

CD4 : 36.49 %

CD8 : 16.88 %

TCR alpha beta : 59.28 %

TCR gamma delta : 2.22 %

Natural Killer Cell Markers

CD16 : 22.51 %

CD56 : 29.78 %

CD57 : 21.08 %

Myeloid Markers

CD13 : 1.68 %

CD14 : 2.15 %

CD15 : 2.30 %

CD33 : 0.30 %

CD64 : 0.74 %

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CD65	:	3.68	%
CD117	:	0.00	%

Erythroblast MarkersPlatelet MarkersConclusion

Immunophenotyping of the medullary sample of 03/11/04. Acquisition of 20,000 cellular events under good technical conditions. The size/granularity graph highlights a very dense erythroblast, lymphocyte, monocyte and granulocyte population. No abnormal cells were detected. No clear blastic population was detected.

The %s above correspond to the cellular population projecting in the lymphocyte window, which represents 950 events out of the 20,000 recorded.

Absence of increase in B markers. Study of the surface Ig did not highlight any argument of Kappa or Lambda isotypic restriction.

The lymphocyte population is mainly composed of T lymphocytes divided into CD4 and CD8. No antigen gap can be noted with CD3, CD2, CD5 or CD7 expression.

Presence of a few NK lymphocytes without marked increase in NK markers.

Polymorphous phenotypical appearance. Absence of clear cytometric argument for haemopathy.

****FINAL PUBLICATION BY DISCIPLINE****

MC V Hervé – MC T Samson – MC V Foissaud – MC C Soler – MP C MacNab – Assistant

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Case N° **4110163403** of 07/11/04 at 10:54
sample of 07/11/04
patient n°: P19532118

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93.62.29

HAEMATOLOGY

MYELOGRAM

Medullary abundance
MEGAKARYOCYTES

3/5
10/slide

GRANULOCYTE LINEAGE

Neutrophils

Myeloblasts	0.5	%
Promyelo. neutrophils	1.0	%
Myelocyt. neutrophils	8.5	%
Metamyelo. neutrophils	7.0	%
Polymorphonucleocytes	38.0	%

Eosinophils

Promyelo. eosinophils	0.0	%
Myelocyt. eosinophils	0.5	%
Metamyelo. eosinophils	0.0	%
Polymorphonucleocytes	0.0	%

Basophils 0.0 %

Total granulocyte lineage: **55.5 %**

ERYTHROCYTE LINEAGE

Proerythroblasts	0.00	%
Baso erythroblasts	1.50	%
Poly erythroblasts	3.50	%
Acido erythroblasts	25.00	%

Total erythroblast lineage: **30.00 %**

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Case N° **4110163403** of 07/11/04 at 10:54

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patient n°: P19532118

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NON-MYELOID LINEAGE

Lymphocytes	7.5	%
Prolymphocytes	0.0	%
Plasmocytes	1.0	%
Proplasmocytes	0.0	%
Plasmablasts	0.0	%
Monocytes	2.0	%
Promonocytes	3.5	%
Total non-myeloid lineage:	14.0	%

UNDIFFERENTIATED BLASTS 0.0 %**INTERPRETATION:**

MACROPHAGES: 3.5%

Marrow of abundance 2.5 to 3/5 comprising 10 megakaryocytes per slide of morphology within normal limits. Relative scarcity of megakaryocytes in comparison to the medullary abundance but this has not increased in comparison to the previous myelogram.

The granulocyte lineage is well represented, observed at its various stages of maturation. Persistence of the maturity pyramid. Presence of slight morphological abnormalities, mainly nuclear.

The erythroblast lineage is better represented (appearing richer than on the previous myelogram) with a slight appearance of “islands”. Slight cytoplasmic and/or nuclear morphological abnormalities can be noted.

There is a presence of a few macrophages with frequent images of cytophagocytosis. This macrophagic appearance is stable in comparison to the previous myelogram.

Presence of a few plasmocytes, but these have reduced sharply since the previous sample.

CONCLUSION: Rich marrow with good representation of the granulocyte and erythroblast lineages. More moderate representation of the megakaryocyte lineage.

However the presence of a few megakaryocytes can be observed, of morphology within normal limits.

Absence of excess blasts. Absence of abnormal cells.

****FINAL PUBLICATION BY DISCIPLINE****

MC V Hervé – MC T Samson – MC V Foissaud – MC C Soler – MP C MacNab – Assistant

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Page: 001

Case N° **0488060429** of 03/11/04 at 06:43
sample of 03/11/04

Published on 17/11/04 at 12:29
DUPLICATE

Frederic MARTIPON
Born on: 30/12/1940 – M
PAT n°: P19532118

HAEMATOTOLOGY HOSPITALISATION
93.63.05

Unit n° 6 FINAL UNIT PUBLICATION TO BE RETAINED

HAEMATOTOLOGY

REFERENCES			2	1
DATE			0488060429	0488060277
TIME			03/11/2004	02/11/2004
COR.			06:31	17:10
			P4310	P4310
LEUCOCYTES	4,000 – 10,000	/mm ³	*16,200	*17,800
ERYTHROCYTES	4.50 – 5.80	MM/mm ³	*3.39	*3.31
- Hb	13.00 – 18.00	g/dl	*11.20	*10.80
- Hte	40 – 48	%	*34	*33
- MCV	85 – 95	μ3	*99	*99
- MCH	27 – 33	pg	33	33
- MCHC	31 – 36	%	33	33
- RDW			14.2	14.2
PLATELETS	150 – 400	/mm ³	*39,000	*59,000
- MPV			9.3	8.3
- NEUTRO		%	93.0	91.0
neutro	2,000 – 10,000	/m ³	*15,066	*16,198
- EOSINO		%	0.0	0.0
eosino	0 – 700	/m ³	0	0
- BASO		%	0.0	0.1
baso	0 – 150	/m ³	0	18
- LYMPHO		%	4.0	3.8
lympho	1,000 – 4,000	/m ³	*648	*676
- MONO		%	2.0	5.1
mono	200 – 1,000	/m ³	324	908
NFS COMMENTS			SMEAR	
Metamyelocytes		%	1.0	
Platelet aggregation			Absence	
RETICULOCYTES %		%	0.930	
i.e. reticulocytes	20,000-80,000	/mm ³	31,527	
NF Comments			Cf 1	

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Case N° **0488060429** of 03/11/04 at 06:43
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HAEMATOLOGY HOSPITALISATION
93.63.05

0488060429 03/11/2004 06:31 P4310

(1) NF Comments

Presence of rare lymphoplasmacytes and a few activated lymphocytes.

****FINAL PUBLICATION BY DISCIPLINE****

MC V Hervé – MC T Samson – MC V Foissaud – MC C Soler – MP C MacNab – Assistant